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L6



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 DATE: Friday, August 12, 2005 [Printable Copy](#) [Create Case](#)

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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
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<u>L5</u>	L4 and (acrylic acid.ti. or unsaturated carboxylic acid.ti.)	54	<u>L5</u>
<u>L4</u>	L3 and multi\$1metal oxide	134	<u>L4</u>
<u>L3</u>	L1 and propene and acrylic acid	2719	<u>L3</u>
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<u>L1</u>	mo or bi or fe or thallium or zinc or silicon or tungsten or tellurium or antimony or tin or copper	3559757	<u>L1</u>

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☐ 1. Document ID: US 20050101803 A1

Using default format because multiple data bases are involved.

L6: Entry 1 of 35

File: PGPB

May 12, 2005

PGPUB-DOCUMENT-NUMBER: 20050101803

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050101803 A1

TITLE: Long-term operation of a heterogeneously catalyzed gas phase partial oxidation of propene to acrylic acid

PUBLICATION-DATE: May 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dieterle, Martin	Mannheim		DE	
Petzoldt, Jochen	Weisenheim am Berg		DE	
Muller-Engel, Klaus Joachim	Stutensee		DE	

US-CL-CURRENT: 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20050096483 A1

L6: Entry 2 of 35

File: PGPB

May 5, 2005

PGPUB-DOCUMENT-NUMBER: 20050096483

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050096483 A1

TITLE: Long-term operation of a heterogeneously catalyzed gas phase partial oxidation of acrolein to acrylic acid

PUBLICATION-DATE: May 5, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dieterle, Martin	Mannheim		DE	
Petzoldt, Jochen	Weisenheim am Berg		DE	
Muller-Engel, Klaus Joachim	Stutensee		DE	

US-CL-CURRENT: 562/535

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 3. Document ID: US 20050065370 A1

L6: Entry 3 of 35

File: PGPB

Mar 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050065370

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050065370 A1

TITLE: Preparation of (meth) acrylic acid

PUBLICATION-DATE: March 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Borgmeier, Frieder	Mannheim		DE	
Rosowski, Frank	Mannheim		DE	
Lintz, Hans-Gunther	Karlsruhe		DE	
Grisstede, Ina	Karlsruhe		DE	

US-CL-CURRENT: 562/546

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 4. Document ID: US 20050043567 A1

L6: Entry 4 of 35

File: PGPB

Feb 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050043567

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050043567 A1

TITLE: Preparation of (meth) acrylic acid

PUBLICATION-DATE: February 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Borgmeier, Frieder	Mannheim		DE	
Rosowski, Frank	Mannheim		DE	
Lintz, Hans-Gunther	Karlsruhe		DE	
Grisstede, Ina	Karlsruhe		DE	
Cabre, Elisabet Bacells	Karlsruhe		DE	

US-CL-CURRENT: 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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☐ 5. Document ID: US 20050038291 A1

L6: Entry 5 of 35

File: PGPB

Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050038291

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050038291 A1

TITLE: Preparation of (meth)acrolein and/or (meth)acrylic acid

PUBLICATION-DATE: February 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Petzoldt, Jochen	Weisenheim am Berg		DE	
Unverricht, Signe	Mannheim		DE	
Arnold, Heiko	Nanjing		CN	
Muller-Engel, Klaus Joachim	Stutensee		DE	
Dieterle, Martin	Mannheim		DE	

US-CL-CURRENT: 562/545; 568/476

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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☐ 6. Document ID: US 20040260121 A1

L6: Entry 6 of 35

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040260121

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040260121 A1

TITLE: Method for the production of acrylic acid by heterogeneously-catalysed gas-phase oxidation

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nestler, Gerhard	Wien		AT	
Schroder, Jurgen	Ludwigshafen		DE	

US-CL-CURRENT: 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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☐ 7. Document ID: US 20040249196 A1

L6: Entry 7 of 35

File: PGPB

Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040249196

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040249196 A1

TITLE: Heterogeneously catalyzed partial gas phase oxidation of acrolein to acrylic acid

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dieterle, Martin	Mannheim		DE	
Petzoldt, Jochen	Mannheim		DE	
Arnold, Heiko	Nanjing		CN	
Ruppel, Wilhelm	Mannheim		DE	
Muller-Engel, Klaus Joachim	Stutensee		DE	

US-CL-CURRENT: 562/518; 562/531, 562/532

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 20040242926 A1

L6: Entry 8 of 35

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040242926

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040242926 A1

TITLE: Heterogeneously catalyzed partial gas phase oxidation of propene to acrylic acid

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dieterle, Martin	Mannheim		DE	
Petzoldt, Jochen	Mannheim		DE	
Muller-Engel, Klaus Joachim	Stutensee		DE	
Arnold, Heiko	Nanjing		CN	

US-CL-CURRENT: 562/545

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 20040192965 A1

L6: Entry 9 of 35

File: PGPB

Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040192965

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040192965 A1

TITLE: Heterogeneously catalyzed partial gas phase oxidation of propene to acrylic acid

PUBLICATION-DATE: September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Petzoldt, Jochen	Mannheim		DE	
Dieterle, Martin	Mannheim		DE	
Arnold, Heiko	Nanjing		CN	
Ruppel, Wilhelm	Mannheim		DE	
Mueller-Engel, Klaus Joachim	Stutensee		DE	

US-CL-CURRENT: 562/534

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 10. Document ID: US 20040192963 A1

L6: Entry 10 of 35

File: PGPB

Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040192963

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040192963 A1

TITLE: Heterogeneously catalyzed partial gas phase oxidation of acrolein to acrylic acid

PUBLICATION-DATE: September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dieterle, Martin	Mannheim		DE	
Petzoldt, Jochen	Mannheim		DE	
Muller-Engel, Klaus Joachim	Stutensee		DE	
Arnold, Heiko	Nanjing		CN	

US-CL-CURRENT: 562/532

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 11. Document ID: US 20040138500 A1

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L6: Entry 11 of 35

File: PGPB

Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040138500

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040138500 A1

TITLE: Method for the production of acrylic acid by heterogeneously catalyzed partial propane oxidation

PUBLICATION-DATE: July 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Borgmeier, Frieder	Mannheim		DE	

US-CL-CURRENT: 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 12. Document ID: US 20040082810 A1

L6: Entry 12 of 35

File: PGPB

Apr 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040082810

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040082810 A1

TITLE: Method for producing acrylic acid by heterogeneously catalyzed gas phase oxidation of propene with molecular oxygen in a reaction zone

PUBLICATION-DATE: April 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Borgmeier, Frieder	Mannheim		DE	
Petzoldt, Jochen	Mannheim		DE	
Hibst, Hartmut	Schriesheim		DE	
Tenten, Andreas	Maikammer		DE	

US-CL-CURRENT: 562/546; 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 13. Document ID: US 20040054222 A1

L6: Entry 13 of 35

File: PGPB

Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040054222

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040054222 A1

TITLE: Heterogenically catalysed gas-phase partial oxidation method for precursor compounds of (meth)acrylic acid

PUBLICATION-DATE: March 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Felder, Raimund	Neustadt		DE	
Unverricht, Signe	Mannheim		DE	
Arnold, Heiko	Mannheim		DE	
Petzoldt, Jochen	Mannheim		DE	

US-CL-CURRENT: 562/547; 502/208, 502/210, 502/211, 502/212, 502/213, 502/311, 502/312

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 14. Document ID: US 20030187299 A1

L6: Entry 14 of 35

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187299

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030187299 A1

TITLE: Method for producing acrolein and/or acrylic acid

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Machhammer, Otto	Mannheim		DE	
Adami, Christoph	Weinheim		DE	
Hechler, Claus	Ludwigshafen		DE	
Zehner, Peter	Ludwigshafen		DE	

US-CL-CURRENT: 562/547; 568/475

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 15. Document ID: US 20030187298 A1

L6: Entry 15 of 35

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187298

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030187298 A1

TITLE: Method for producing acrylic acid by the heterogeneously catalysed gas-phase oxidation of propane

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Borgmeier, Frieder	Mannheim		DE	
Tenten, Andreas	Maikammer		DE	
Hibst, Hartmut	Schriesheim		DE	
Muller-Engel, Klaus Joachim	Stutensee		DE	
Unverricht, Signe	Mannheim		DE	
Cox, Gerhard	Bad D?uuml;rkheim		DE	

US-CL-CURRENT: 562/546; 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 16. Document ID: US 20030060661 A1

L6: Entry 16 of 35

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030060661

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030060661 A1

TITLE: Method for the purification of a crude acrylic acid melt

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Eck, Bernd	Viernheim		DE	
Baumann, Dieter	Walldorf		DE	
Heilek, Jorg	Bammental		DE	
Muller-Engel, klaus Joachim	Stutensee		DE	

US-CL-CURRENT: 562/600

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 17. Document ID: US 6888024 B2

L6: Entry 17 of 35

File: USPT

May 3, 2005

US-PAT-NO: 6888024

DOCUMENT-IDENTIFIER: US 6888024 B2

TITLE: Heterogeneously catalyzed partial gas phase oxidation of propene to acrylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 18. Document ID: US 6867328 B2

L6: Entry 18 of 35

File: USPT

Mar 15, 2005

US-PAT-NO: 6867328

DOCUMENT-IDENTIFIER: US 6867328 B2

**** See image for Certificate of Correction ****

TITLE: Method for producing acrylic acid by the heterogeneously catalysed gas-phase oxidation of propane

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 19. Document ID: US 6858754 B2

L6: Entry 19 of 35

File: USPT

Feb 22, 2005

US-PAT-NO: 6858754

DOCUMENT-IDENTIFIER: US 6858754 B2

TITLE: Method for the production of acrylic acid by heterogeneously catalyzed partial propane oxidation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 20. Document ID: US 6806385 B1

L6: Entry 20 of 35

File: USPT

Oct 19, 2004

US-PAT-NO: 6806385

DOCUMENT-IDENTIFIER: US 6806385 B1

TITLE: Rectification of (meth)acrylic acid with the addition of a tenside

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 21. Document ID: US 6781017 B2

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L6: Entry 21 of 35

File: USPT

Aug 24, 2004

US-PAT-NO: 6781017

DOCUMENT-IDENTIFIER: US 6781017 B2

TITLE: Method for the production of acrolein or acrylic acid or the mixture thereof from propane

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Machhammer; Otto	Mannheim			DE
Schindler; Goetz-Peter	Mannheim			DE
Tenten; Andreas	Maikammer			DE
Harth; Klaus	Altleiningen			DE
Zehner; Peter	Ludwigshafen			DE
Muller-Engel; Klaus Joachim	Stutensee			DE
Rosowski; Frank	Mannheim			DE
Borgmeier; Frieder	Mannheim			DE

US-CL-CURRENT: 568/470; 562/512.2, 562/530, 568/475, 568/476

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D
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☐ 22. Document ID: US 6740779 B1

L6: Entry 22 of 35

File: USPT

May 25, 2004

US-PAT-NO: 6740779

DOCUMENT-IDENTIFIER: US 6740779 B1

TITLE: Method for carrying out the catalytic gas phase oxidation of propene to form acrylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D
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☐ 23. Document ID: US 6541664 B1

L6: Entry 23 of 35

File: USPT

Apr 1, 2003

US-PAT-NO: 6541664

DOCUMENT-IDENTIFIER: US 6541664 B1

TITLE: Method of heterogeneous catalyzed vapor-phase oxidation of propane to acrolein and/or acrylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 24. Document ID: US 6525217 B1

L6: Entry 24 of 35

File: USPT

Feb 25, 2003

US-PAT-NO: 6525217

DOCUMENT-IDENTIFIER: US 6525217 B1

TITLE: Method for the catalytic gas-phase oxidation of propene to acrylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 25. Document ID: US 6426433 B1

L6: Entry 25 of 35

File: USPT

Jul 30, 2002

US-PAT-NO: 6426433

DOCUMENT-IDENTIFIER: US 6426433 B1

TITLE: Method for producing acrolein and/or acrylic acid from propane

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 26. Document ID: US 6423875 B1

L6: Entry 26 of 35

File: USPT

Jul 23, 2002

US-PAT-NO: 6423875

DOCUMENT-IDENTIFIER: US 6423875 B1

TITLE: Method for producing acrolein and/or acrylic acid from propane

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 27. Document ID: US 6403829 B1

L6: Entry 27 of 35

File: USPT

Jun 11, 2002

US-PAT-NO: 6403829

DOCUMENT-IDENTIFIER: US 6403829 B1

TITLE: Method for the catalytic gas phase oxidation of acrolein into acrylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 28. Document ID: US 6388129 B1

L6: Entry 28 of 35

File: USPT

May 14, 2002

US-PAT-NO: 6388129

DOCUMENT-IDENTIFIER: US 6388129 B1

TITLE: Method for producing acrolein and/or acrylic acid from propane

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 29. Document ID: US 6228227 B1

L6: Entry 29 of 35

File: USPT

May 8, 2001

US-PAT-NO: 6228227

DOCUMENT-IDENTIFIER: US 6228227 B1

TITLE: Separation of (meth)acrylic acid by rectification

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 30. Document ID: US 6124499 A

L6: Entry 30 of 35

File: USPT

Sep 26, 2000

US-PAT-NO: 6124499

DOCUMENT-IDENTIFIER: US 6124499 A

TITLE: Preparation of organic acids such as acrylic acid by catalytic oxidation using a group V mixed metal oxide catalyst containing Cu, Mo, W, V, Nb and Ta

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 31. Document ID: US 6051736 A

Using default format because multiple data bases are involved.

L6: Entry 31 of 35

File: USPT

Apr 18, 2000

US-PAT-NO: 6051736

DOCUMENT-IDENTIFIER: US 6051736 A

**** See image for Certificate of Correction ****

TITLE: Preparation of (meth)acrylic acid

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schraut; Armin	Bensheim			DE
Ulbrich; Michael-Dieter	Freinsheim			DE
Martin; Freidrich-Georg	Heidelberg			DE
Eck; Bernd	Viernheim			DE
Heilek; Jorg	Bammental			DE

US-CL-CURRENT: 562/600; 562/532, 562/538, 568/470, 568/492

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 32. Document ID: US 5961790 A

L6: Entry 32 of 35

File: USPT

Oct 5, 1999

US-PAT-NO: 5961790

DOCUMENT-IDENTIFIER: US 5961790 A

TITLE: Separation of (meth) acrylic acid by rectification

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 33. Document ID: US 5855743 A

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File: USPT

Jan 5, 1999

US-PAT-NO: 5855743

DOCUMENT-IDENTIFIER: US 5855743 A

TITLE: Process of isolation of (Meth) acrylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	SYNOPSIS	REFERENCES	Claims	KWIC	Draw. D.
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☐ 34. Document ID: US 5739391 A

L6: Entry 34 of 35

File: USPT

Apr 14, 1998

US-PAT-NO: 5739391

DOCUMENT-IDENTIFIER: US 5739391 A

**** See image for Certificate of Correction ****TITLE: Catalytic gas-phase oxidation of acrolein to acrylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	SYNOPSIS	REFERENCES	Claims	KWIC	Draw. D.
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☐ 35. Document ID: US 5637222 A

L6: Entry 35 of 35

File: USPT

Jun 10, 1997

US-PAT-NO: 5637222

DOCUMENT-IDENTIFIER: US 5637222 A

TITLE: Process for the fractional separation of (meth)acrylic acid from a mixture containing (meth)acrylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	SYNOPSIS	REFERENCES	Claims	KWIC	Draw. D.
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Terms

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